Patents by CSIR labs

429. SHRI RAMACHANDRA KHUNTIA: Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) what is the number of patents developed by various laboratories of the Council of Scientific and Industrial Research (CSIR) during the last three years, laboratory-wise and year-wise;

(b) how many of these patents have been marketed, till date; and

(c) what has been the revenue earned by CSIR through marketing of these patents during the same period?

THE MINISTER OF SCIENCE AND TECHNOLOGY (DR. MURLI MANOHAR JOSHI): (a) to (c) Council of Scientific and Industrial Research (CSIR) and its laboratories file the highest number of patents in India and also the highest number of patents abroad by any Indian entity. The details are given in Statement I and II (*See* below). It takes upto around 7 years for a patent application to be processed in India and about 1 to 3 years abroad, after the date of its filling, depending on the country. Also over 7% of the CSIR patents are utilized as against the global average of less than 5% Patents are only a small, albeit an important component of technological knowhow and knowledge. Patents are thus marketed as a component of the overall technology/knowhow package and no separate value is assigned in the package to the patents *per se*.

Statement I

CSIR Patents Field and granted in India

	1999-2000		2000-2001		2001-2002	
	Filed	Granted	Filed	Granted	Filed	Granted
1	2	3	4	5	6	7
CBRI	5	0	4	2	2	1
CBT	6	1	1	1	4	9
CCMB	0	0	0	0	0	1
CDRI	16	13	10	10	17	18
CECRI	6	8	13	8	9	34

1	2	3	4	5	6	7
CEERI	1	3	2	1	3	7
CFRI	1	0	7	1	8	4
CFTRI	55	6	61	2	100	8
CGCRI	20	3	25	2	30	5
CIMAP	30	4	10	1	11	20
CLRI	10	4	14	3	10	5
CMERI	2	0	5	2	2	1
CMRI	2	0	6	0	6	8
CRRI	0	1	0	0	0	0
CSIO	1	1	0	0	0	1
CSIR (SCH)	7	0	10	0	19	1
CSMCRI	3	3	6	1	4	1
IHBT	0	0	5	0	3	0
IICB	5	2	2	2	1	12
IICT	46	8	40	11	44	21
IIP	7	3	12	1	9	7
IMT	2	3	0	1	2	4
ITRC	4	0	3	2	2	3
MERADO(P)	0	0	0	0	0	1
NAL	6	1	6	0	3	2
NBRI	1	0	3	0	2	0
NCL	65	23	92	32	43	90
NEERI	10	0	0	0	4	1
NGRI	0	0	0	0	0	0
NIO	11	1	1	0	2	1
NML	3	1	7	7	10	23
NPL	8	2	5	2	9	4
RRL (BH)	1	2	10	2	17	11
RRL (BP)	3	1	1	3	7	2
RRL (J)	24	8	17	8	10	9
RR(JT)	8	4	20	9	8	21
RRL (T)	8	6	12	3	6	5
SERC(G)	0	0	0	0	0	0
SERC(M)	0	0	0	0	3	0
TOTAL	377	112	410	117	410	341

Statement II

CSIR Patents filed and granted abroad

	1999-2000		2000-2001		2001-2002	
	Filed	Granted	Filed	Granted	Filed	Granted
1	2	3	4	5	6	7
CBRI	0	0	0	0	0	0
CBT	7	2	10	1	22	1
CCMB	0	0	24	1	4	0
CDRI	16	0	8	6	27	6
CECRI	0	0	3	2	2	0
CEERI	1	0	0	0	0	1
CFRI	1	0	4	0	10	0
CFTRI	2	0	26	1	60	2
CGCRI	3	0	3	1	8	3
CIMAP	68	1	38	7	31	25
CLRI	3	3	10	0	0	2
CMRI	1	0	0	1	0	0
CSIO	0	0	4	0	12	0
CSIR (SCH)	3	0	6	0	23	1
CSMCRI	0	0	5	0	30	0
IHBT	0	1	63	1	36	0
IICB	3	1	18	0	9	5
IICT	32	6	72	4	92	17
IIP	0	3	16	1	0	0
IMT	3	0	6	1	11	0
NAL	0	0	1	0	0	0
NBRI	3	0	13	0	10	1
NCL	18	12	63	16	43	16
NEERI	0	2	0	4	1	0
NGRI	0	0	0	0	5	0
NIO	6	0	27	0	29	0
NML	0	0	0	0	20	0
NPL	7	0	8	3	20	3
RRL (BHU)	1	0	0	0	3	0

1	2	3	4	5	6	7
RRL (BP)	1	0	0	0	0	0
RRL (j)	1	0	0	0	48	1
RRL (JT)	0	2	1	4	4	0
RRL (T)	20	2	23	2	20	2
TOTAL	199	35	452	56	580	86

Toronto meet on Bio-tech

430. SHRI PREM CHAND GUPTA: Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) whether it is a fact that at the recently held Annual Global Bio-tech Meet in Toronto a recommendation was made that investors should focus on Red-bio-tech, *i.e.*, research on human genes, as against Green Bio-tech (Agriculture); and

(b) if so, what are the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY (SHRI BACHI SINGH RAWAT): (a) and (b) In the recently held Annual Global Bio-Tech Meet in Toronto, equal emphasis was given to the research and product development related to human health, environment and agriculture. In fact, the them of this years conference was "Life Sciences" focusing on new knowledged, new process & new products coming out of life sciences. The congregation acknowledged the increase in approvals of bio-technology based medicine, vaccines and breakthrough in medications for leukemia, congestive heart failure, HIV infection, pulmonary arterial, hypertension and life-threatening sepsis. However, it was realized that bio-technology will play a major role in cleanner manufacturing process, helping sustainable development and would result in developing nutritionally enhanced crops to provide more and better nutrition to a hungry world.

Developing Bio-tech Industry

431. SHRI PREM CHAND GUPTA: Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) whether it is a fact that India is amongst the leading emerging forces in the bio-tech world, with the potential to become a leading player in the Asia-Pacific region;